ABSTRACT OF THE DISCLOSURE

On a substrate of a GaN FET, an undoped AlN layer, a GaN delta doped layer, an undoped GaN layer, and an undoped Al_{0.2} Ga_{0.8} N layer are formed in sequence. Arranged on the undoped Al_{0.2} Ga_{0.8} N layer are a Ti/Al/Pt/Au source ohmic electrode, a Pt/Au gate Schottky electrode, and a Ti/Al/Pt/Au drain ohmic electrode. Parallel conduction and gate leak are reduced or eliminated by the GaN delta doped layer.

5